	Application No.	Applicant(s)
·	10/044,455	LI ET AL.
Notice of Allowability	Examiner	Art Unit
	Michael P. Mooney	2883
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in to or other appropriate commur GHTS. This application is su	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to 2/20/04 Amdt.		
2. 🔀 The allowed claim(s) is/are <u>1-7 and 9-14</u> .		
3. The drawings filed on 11 January 2002 are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
 (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	s Amendment / Comment or in	n the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the	drawings in the front (not the back) of 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATE	RIAL must be submitted. Note the
Attachment(s)		
1. Notice of References Cited (PTO-892)		rmal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sur	nmary (PTO-413),
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 2/20/04	8), 7. Examiner's A	ail Date mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		tatement of Reasons for Allowance
of Biological Material	9. Other	

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The prior art, either alone or in combination, does not disclose or render obvious a dispersion and dispersion slope compensating optical waveguide wherein the combination of Δ.sub.i%'s and r.sub.i's is selected to provide a negative total dispersion slope more negative than –1.5 ps/sq. nm/km at 1550 nm and a ratio of total dispersion to total dispersion slope in the range of 40 nm to 60 nm at a wavelength of 1550 nm in combination with the rest of claim 1 for the reasons stated by Applicant in the Remarks section filed 2/20/04.

It is noted that the claim 1 is allowable because the unique combination of each and every specific element stated in the claim.

The prior art, either alone or in combination, does not disclose or render obvious a dispersion and dispersion slope compensating optical waveguide wherein the combination of Δ.sub.i%'s and r.sub.i's is selected to provide a negative total dispersion slope and a ratio of total dispersion to total dispersion slope in the range of 40 nm to 60 nm at a wavelength of 1550 nm further including a 1st and a 2nd clad layer, said 1st layer being nearer the core region,each said layer having respective radii, r.sub.cj, relative refractive index percents, Δsub.cj%, where j takes on the values 1 and 2, the value 1 corresponding to an inner clad layer and the value 2 to an outer clad layer wherein;

 Δ sub.c1% < Δ sub.c2% > 22 µm, and the difference between Δ sub.c2% and Δ sub.c1% is less than or equal to 0.1% in combination with the rest of claim 4 for the reasons stated by Applicant in the Remarks section filed 2/20/04.

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It is noted that the claim 4 is allowable because the unique combination of each and every specific element stated in the claim.

The prior art, either alone or in combination, does not disclose or render obvious a dispersion and dispersion slope compensating optical waveguide wherein the preselected end to end total dispersion at 1550 nm is zero and the local total dispersion along said span has a magnitude greater than or equal to 1.0 ps/nm/km in combination with the rest of claim 9 for the reasons stated by Applicant in the Remarks section filed 2/20/04.

It is noted that the claim 9 is allowable because the unique combination of each and every specific element stated in the claim.

The prior art, either alone or in combination, does not disclose or render obvious a dispersion and dispersion slope compensating optical waveguide wherein

the ratio of total dispersion to total dispersion slope in the range of 40 nm to 60 nm at a wavelength of 1550 nm of said 1st and a 2nd lengths are equal to each other within 5%, the ratio of the 1st length to the 2nd length is not less than 35, and the end to end total dispersion of said span has a pre-selected value at 1550 nm wherein the ratio of total dispersion to total dispersion slope at 1550 nm for both said 1st and 2nd optical waveguide fiber (OWF) lengths have a range from 40nm to 60nm in combination with the rest of claim 10 for the reasons stated by Applicant in the Remarks section filed 2/20/04.

It is noted that the claim 10 is allowable because the unique combination of each and every specific element stated in the claim.

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The prior art, either alone or in combination, does not disclose or render obvious a dispersion and dispersion slope compensating optical waveguide wherein the ratio of total dispersion to total dispersion slope in the range of 40 nm to 60 nm at a wavelength of 1550 nm of said 1st and a 2nd lengths are equal to each other within 5%, the ratio of the 1st length to the 2nd length is not less than 35, and the end to end total dispersion of said span has a pre-selected value at 1550 nm wherein the 2nd length of OWF includes a core region surrounded by and in contact with a clad layer ...in combination with the rest of claim 11 for the reasons stated by Applicant in the Remarks section filed 2/20/04.

It is noted that the claim 11 is allowable because the unique combination of each and every specific element stated in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Mooney whose telephone number is 571-272-2422. The examiner can normally be reached during weekdays, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-

1562.

Michael P. Mooney

Examiner

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FGF/mpm 11/29/04 Frank G. Font

Supervisory Patent Examiner

Frank & Fort

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